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2613
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: W. C. LYNCH et al. Examiner: Shawn S. An
Application No.: 09/079,101 Art Unit: 2613
Filed: May 14, 1998 Docket No.: INT1P017
Title: STORAGE REDUCTION DURING COMPRESSION

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First-Class Mail in a prepaid envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 19, 2005.


Jennifer C. Gross

RENEWED PETITION TO WITHDRAW THE HOLDING OF
ABANDONMENT

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RECEIVED**DEC 28 2005****Technology Center 2600**

Dear Sir:

This Renewed Petition to Withdraw the Holding of Abandonment is being filed in response to the decision mailed November 18, 2005. This application went abandoned on December 30, 2002 due to non-response.

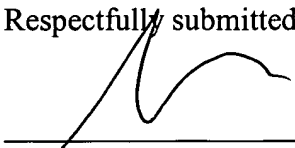
An Office Action was mailed on October 9, 2001 and responded to in a timely manner on January 9, 2003. A Notice of Non-Compliant Amendment was mailed on February 25, 2002 requiring corrections be submitted prior to March 25, 2002. Applicants submitted their Response to Notice of Non-Complaint Amendment on March 6, 2002 as is evidenced by the enclosed copy of same with the Certificate of Mailing thereon. Statement of Attorney is enclosed, which attests to the previously timely mailing of the response to the Notice of Non-Compliant Amendment.

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The applicants respectfully request the withdrawal of the holding of abandonment in view of the enclosed copy of the response to the Examiner's Notice of Non-Compliant Amendment which was timely filed.

Dated: 12-19-05

Respectfully submitted,



Lee Van Pelt
Registration No. 38,352
V 408-973-2590
F 408-973-2595

VAN PELT AND YI, LLP
10050 N. Foothill Blvd., Suite 200
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	LYNCH et al.	Examiner:	Shawn S. An
Application No.:	09/079,101	Art Unit:	2613
Filed:	May 14, 1998	Docket No.:	INT1P017
Title:	STORAGE REDUCTION DURING COMPRESSION		

STATEMENT OF ATTORNEY

Mail Stop Petitions
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Attached is a copy of the Response to Notice of Non-Compliant Amendment, which according to my personal knowledge of our firm procedures, was mailed as stated by the Certificate of Mailing to the United States Patent & Trademark Office on March 6, 2002.

In regards to the Notice of Abandonment allegedly mail by the USPTO on December 30, 2002 (according to PAIR records), we are not aware of ever receiving a Notice of Abandonment for the above-identified application.

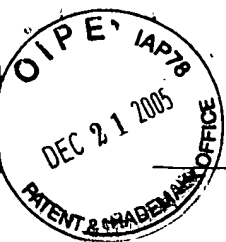
Respectfully submitted,

C. Douglass Thomas
Reg. No. 32,947

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: W.C. Lynch et al.

Attorney Docket No.: INT1P017

Application No.: 09/079,101

Examiner: Maung, Z.

Filed: 14 May 1998

Group: 2613

Title: STORAGE REDUCTION DURING
COMPRESSION

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, Washington, DC 20231 on March 6, 2002.

Signed: _____

Agnes F. Spence

RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In response to the Notice of Non-Compliant Amendment dated February 25, 2002 included herewith is the clean version of the replace paragraphs requested therein. If any additional items are needed please let us know.

Should the Examiner have any questions with regard to this entry the undersigned can be reached at the telephone number set out below.

Respectfully submitted,
BEYER WEAVER & THOMAS, LLP

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Reg. No. 32,947

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DEC 28 2005

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In the Specification:

Please **SUBSTITUTE** the following amended paragraph/section for the pending paragraph (a marked up copy of the prior pending paragraph with all changes shown is supplied in the appendix):

Please replace the pending paragraph, which begins on page 1, line 5 with:

This application is related to U.S. patent applications No. 09/079,104 entitled "Compression of Combined Black/White and Color Video Signal", U.S. Patent No. 6,229,929, issued 8 May 2001 entitled "Border Filtering of Video Signal Blocks" and No. 09/079,427 entitled "Color Rotation Integrated With Compression of Video Signal", all filed on the same date herewith, and each of which is hereby incorporated by reference.

Please replace the pending paragraph, which begins on page 2, line 7 with:

Other types of coding such as MPEG coding use interframe or interfield differencing in order to compare frames or fields and thus achieve a better compression ratio. However, in order to compare frames, at least one full frame must be stored in temporary storage in order to compare it to either previous or subsequent frames. Thus, to produce the I, B, and P frames necessary in this type of coding, a frame is typically received and stored before processing can begin. The amount of image data for one frame can be prohibitive to store in RAM, and makes such codec implementations in hardware impractical due to the cost and the size of the extra memory needed. In particular, these codec implementations on an integrated circuit or similar device can be simply too expensive due to the amount of memory required.

Please replace the pending paragraph, which begins on page 19, line 1 with:

Once the block has been quantized the block is encoded in step 232. A wide variety of encoding techniques may be used. By way of example, entropy coding has been found to work well. For example, Huffman coding, arithmetic coding or LZW coding may be used. Other proprietary coding techniques may also be used such as those described in U.S. patent application No. 08/607,388 (Atty. Docket INT1P002) filed February 27, 1996, entitled "Compression of Functions Defined on Manifolds", now U.S. Patent No. 6,144,773, issued 7 November 2000 and in U.S. provisional application No. 60/050,933 (Atty. Docket INT1P005+), filed May 30, 1997, entitled "Single Chip Motion Wavelet Zero Tree Codec For Image And Video Compression" now regular U.S. patent application serial no. 09/087,449, filed 29 May 1998, both of which are hereby incorporated by reference. In general, the encoding algorithm is used to remove redundant information and in particular any groups of zeros produced by quantization. In a preferred embodiment of the invention, standard zerotree encoding is used.